



FRAV2002-0013P.txt
SEQUENCE LISTING

<110> Bamas-Jacques, Nathalie
Thibaut, Denis
Famechon, Alain

<120> Novel variants of the PapM polypeptide of bacteria of the
Streptomyces genus

<130> FRAV2002/0013USNP

<140> US 10/603,282

<141> 2003-06-25

<150> FR0208057

<151> 2002-06-28

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<170> PatentIn Ver. 2.1

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<212> DNA

<213> Streptomyces pristinaespiralis

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Val Thr Ala Ala Ala Pro Thr Leu Ala Gln
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gcg ctg gac gag gcc acc ggg cag ctg acc ggc gcc ggg atc acc gcc 161
Ala Leu Asp Glu Ala Thr Gly Gln Leu Thr Gly Ala Gly Ile Thr Ala
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Asp Ala Ala Arg Ala Asp Thr Arg Leu Leu Ala Ala His Ala Cys Gln
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gtc gcc ccg ggg gac ctc gac acc tgc ctg gcc ggc ccg gtg ccg ccc 257
Val Ala Pro Gly Asp Leu Asp Thr Cys Leu Ala Gly Pro Val Pro Pro
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Arg Phe Trp His Tyr Val Arg Arg Arg Leu Thr Arg Glu Pro Ala Glu
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ccc ggc gtc ttc gtc ccc aaa ccc gag acc gag gag atc acc cgg gac 401
Pro Gly Val Phe Val Pro Lys Pro Glu Thr Glu Glu Ile Thr Arg Asp
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acc tcc gca ccc gaa gtg ctc gag cac gac ccg ccg ctg gcc ctg tgg Thr Ser Ala Pro Glu Val Leu Glu His Asp Pro Pro Leu Ala Leu Trp	205 210	215	737
gcc ggg gag gag ggc ctc ggc atg atc cgc gcc atg gaa cgc acc gcg Ala Gly Glu Glu Gly Leu Gly Met Ile Arg Ala Met Glu Arg Thr Ala	220 225	230	785
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<213> Streptomyces pristinaespiralis

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FRAV2002-0013P.txt

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Arg₆₅ Arg Arg Leu Thr Arg₇₀ Glu Pro Ala Glu Arg₇₅ Ile Val Gly His Ala₈₀
Tyr Phe Met Gly His₈₅ Arg Phe Asp Leu Ala₉₀ Pro Gly Val Phe Val₉₅ Pro
Lys Pro Glu Thr₁₀₀ Glu Glu Ile Thr Arg₁₀₅ Asp Ala Ile Ala Arg₁₁₀ Leu Glu
Ala Leu Val₁₁₅ Arg Arg Gly Thr Thr₁₂₀ Ala Pro Leu Val Val₁₂₅ Asp Leu Cys
Ala Gly₁₃₀ Pro Gly Thr Met Ala₁₃₅ Val Thr Leu Ala Arg₁₄₀ His Val Pro Ala
Ala Arg Val Leu Gly Ile₁₅₀ Glu Leu Ser Gln Ala₁₅₅ Ala Ala Arg Ala Ala₁₆₀
Arg Arg Asn Ala Arg₁₆₅ Gly Thr Gly Ala Arg₁₇₀ Ile Val Gln Gly Asp₁₇₅ Ala
Arg Asp Ala Phe₁₈₀ Pro Glu Leu Ser Gly₁₈₅ Thr Val Asp Leu Val₁₉₀ Val Thr
Asn Pro Pro₁₉₅ Tyr Ile Pro Ile Gly₂₀₀ Leu Arg Thr Ser Ala₂₀₅ Pro Glu Val
Leu Glu₂₁₀ His Asp Pro Pro Leu₂₁₅ Ala Leu Trp Ala Gly₂₂₀ Glu Glu Gly Leu
Gly Met Ile Arg Ala Met₂₃₀ Glu Arg Thr Ala Ala₂₃₅ Arg Leu Leu Ala Pro₂₄₀
Gly Gly Val Leu Leu₂₄₅ Leu Glu His Gly Ser₂₅₀ Tyr Gln Leu Ala Ser₂₅₅ Val
Pro Ala Leu Phe₂₆₀ Arg Ala Thr Gly Arg₂₆₅ Trp Ser His Ala Ser₂₇₀ Ser Arg
Pro Thr Cys₂₇₅ Asn Asp Gly Cys Leu₂₈₀ Thr Ala Val Arg Asn₂₈₅ His Thr Cys
Ala Pro Pro Ala₂₉₀